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BS News

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***BSN**News*

MARCH 2005

MECHANICAL & ELECTRICAL BUILDING SERVICES

**REGII Installer
Insurance Package**

**Installer Opportunities
Also Bring
Responsibilities**

**Domestic
Boilers**

**INVERTER
CONTROLLED**

CONSTANT PRESSURE BOOSTER SETS

- Constant Pressure;
- Silent Running;
- Reduced Running Costs,
- Reduced Water Consumption;
- Compact Size (expansion tanks are not necessary);
- Reduced Maintenance;
- Protection Against Operation Without Water.



Consolidated Pumps Ltd.

Knockmeenagh Road, Newlands Cross, Clondalkin, Dublin 22.

Tel: 01 - 459 3471 Fax: 01 - 459 1093

email: info@consolidatedpumps.com

www.consolidatedpumps.com

<https://arrow.tudublin.ie/bsn/vol44/iss3/1>



READERSHIP DATA

BSNews (formerly Irish Building Services News) is Ireland's only dedicated Building Services magazine providing coverage of heating, ventilating, air conditioning, refrigeration, sanitaryware, plumbing, maintenance, energy and environmental industries. It is the only publication catering exclusively for these industries and its circulation includes members of the following:

Chartered Institution of Building Services Engineers (CIBSE); The Mechanical Engineering & Building Services Contractors' Association (MEBSCA); The Association of Consulting Engineers of Ireland (ACEI); The Mechanical Engineering Contractors' Association; The Institute of Domestic Heating Engineers (IDHE); The Institute of Plumbing; The Register of Environmental & Gas Installers of Ireland (REGII); The Irish Home Builders Association (IHBA); Builders Merchants/Trade Supply Outlets; Irish Property & Facilities Managers Association.

In addition, BSNews circulates to independent building services contractors and key executives in industry. Government, Semi-State and local authority bodies. Essentially, our circulation is virtually saturation coverage of all those with an interest and/or involvement in the building services industry.

Say What You Mean ... Mean What You Say — But Be Honest About It!

Last month's "opinion" slot on this page raised the hackles of a "select minority" within the business. I say "select minority" — and use the term "within the business" — with tongue firmly planted in cheek. You see, the critical comments received were (a) obviously from a small group of individuals who were in contact with one another and operating in unison; and (b) all refused to clarify in what capacity they were writing. Even more damning still was their insistence that their comments were not for publication!

Given the inflammatory nature of some of the comments made this was hardly surprising. They were more rantings and ravings than carefully-constructed editorial pieces setting out any logical argument. They were littered with phrases such as "tabloid journalism"; an accusation that information was gleaned during "light refreshments" after a product launch; a suggestion that "your journal might find itself co-joined in any claim for damages".

Nonetheless, BSNews responded to all and asked the individuals concerned to re-submit their comments, in writing, accompanied by (1) their full name and address; (2) the capacity in which they were expressing their views; (3) if that capacity was as a member of a particular body; (4) how they came to be a member of that body; (5) what relevant technical qualifications they had to sit as a member of that body.

To date not one of those concerned has responded with the information requested.

BSNews respects the views of all our readers, especially when they challenge us. However, if you have something to say about the content of the journal put it in writing for publication. Say what you mean ... mean what you say — but be honest and upfront about it.

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Totaltest for R410A

Totaltest 2 from Carrier is claimed to be the first acid and moisture testing kit for R410A systems that does not require oil samples. It can be used with both air conditioning and refrigeration systems and connects to the suction side service fitting of a system without the need to shut it down.

The risk of compressor failure can be avoided by testing and the simplest method of doing so, according to Austin McDermott of Core Air Conditioning the Carrier distributor for Ireland, is to use the



Carrier's Totaltest 2 for R410A systems

Totaltest 2 kit. Austin claims that the all-in-one set takes just 90 seconds to check for moisture contamination.

Contact: Austin McDermott, Core Air Conditioning.
Tel: 01 - 409 8912;
email: info@coreac.com

Additions To Smart Act Range



Latest SmartAct additions — the 5 Nm and 10 Nm actuators

Latest SmartAct additions — the 5 Nm and 10 Nm actuators — include many time and money-saving features such as a detachable wiring box allowing direct wiring from controller to actuator without a junction box; a function switch to change direction or control signal; and a declutch button which allows easy manual adjustment.

Installation is further simplified by the universal shaft adapter, which allows the actuators to be mounted directly on round and square damper shafts of various lengths and widths.

The SmartAct feature set not only allows contracting companies and installers to reduce total installed costs, but also allows distributors and service businesses to reduce inventory. As Honeywell offers direct-coupled actuators with more than one control function per model, distributors and service businesses can stock just two to four models instead of 10 to 12 competitive models.

Contact: Honeywell Building Control Products.
Tel: 0044 1344 656443;
e-mail: HVACProductsUK@honeywell.com

Dwyer Digital Temperature Switch

The Dwyer TS digital temperature switch from Manotherm is designed to regulate many heating and cooling applications. Easy programming via the tactile front keypad enables quick setup of the 12 parameters for simple, reliable operation. The user can define set-point, heating/cooling regulation, hysteresis, cycle time, ambient probe adjustment and defrosting time.

The unit features error or alarm messaging and password protection with a view probe temperature on the bright red, 3-digit LED display.

Select between 8 amp SPDT or 16 amp SPST relay outputs, temperature display in °F or °C, and 110 VAC, 230 VAC, or 12 VDC power supplies.

The Series TS includes a thermistor with 5 ft (1.5 m) cable, fitting clips for panel mounting, gasket, rear terminal cover, and instruction manual.



Dwyer TS digital temperature switch from Manotherm

Applications include industrial chillers, environmental chambers, walk-ins and freezers, heat sealers, sterilisers, beer and wine chillers, mug frosters, coolers, display cases and cabinets, warmers, meat and produce storage, floral preservation, refrigerated transportation, laboratories, food service equipment, ovens and dryers, tobacco preservation, hot melt glue stitchers for case erectors, cool rooms, burn-in rooms and chambers, and cold water citrus packing.

Contact: Bob Gilbert/Robert Gilbert/Noel Walsh, Manotherm.
Tel: 01 - 452 2355;
email: info@manotherm.ie

Sonas 2005 Bathroom Catalogue

The Sonas bathroom collection 2005 catalogue has just been published and is now available from distributors Ushers Bathroom Furnishings.

Featuring innovative designs across the entire bathroom sector, individual ranges include sanitaryware, bathroom furniture, baths with and

without whirlpool systems, taps, shower products, bathroom accessories and a new bathroom lighting section.

Contact: Dermot Usher, Usher Bathroom Furnishings.
Tel: 01 - 817 9755;
email: info@sonasbathrooms.com

No power? The unique solution

SANYO

AIR CONDITIONERS

ECO G 3 Way Gas Heat Pump: 20HP



Building on the success of the 2 pipe GHP Range, SANYO are proud to introduce the new 3 Way ECO G Gas Heat Pump, the only GHP VRF System to provide simultaneous heating and cooling.

Unlike traditional electric VRF systems, the ECO G range uses natural gas or lpg as the main source of power and only requires a single phase power supply to provide 56.0kW of cooling and 67.0kW of heating.

In Japan, the world's largest market for VRF, Gas Heat Pump systems account for 40% of the total market and SANYO, with 19 years of GHP experience are the clear market leaders.

- Simultaneous heating and cooling
- 56.0kW nominal cooling capacity
- Single phase power supply
- 100% cooling and heating capacity even at -20°C
- Maximum running current 5.4 amps
- 10 indoor model styles, 11 indoor model capacities

Whether choosing from the ECO G GHP range because of power problems or lower lifecycle costs, you'll find it simple to apply, install and maintain. The units also qualify for the Enhanced Capital Allowance Scheme. SANYO - a good decision all round.



'The Natural Choice' From Sanyo

Cementing its position at the forefront of innovation in the Irish air conditioning market, Sanyo Air Conditioners unveiled its latest product development at the recent RAC show at the NEC in Birmingham, the ECO G Gas Heat Pump Range. This is Europe's only gas heat pump VRF system to provide simultaneous heating and cooling and is already proving extremely popular with specifiers looking to the future.

Speaking at the launch, Irelands National Sales Manager, Barry Hennessy said: "At Sanyo we are always talking about the strength of our products – and this is perfectly borne out by the ECO G. With the GHP we have developed an air conditioning solution that is environmentally friendly, easy-to-install, and low on maintenance – the Irish market is crying out for such a premium-quality, energy-efficient air conditioning system. The ECO G firmly places us at least a generation ahead of the competition."

As the market leader in Japan and making its debut in Europe as a 3-

pipe version, the Sanyo ECO G GHP is said to be the only product on the European market to offer:

- Simultaneous heating and cooling;
- Single-phase power supply across the range;
- The option of natural gas or LPG as its power source;
- 100% heating performance at -20°C;
- Plus, a choice of DX or chilled water for indoor heat exchange

Offering the only 3-pipe GHP air conditioning system in Europe, the ECO G range provides the greatest choice and flexibility on the market today to satisfy any power problem or site requirement. Providing simultaneous heating and cooling for total control, the range offers extended pipe runs up to 780m and will run for 10,000 hours between engine service intervals (equivalent to one maintenance every 3.2 years*).

The ECO G is very much a part of the Sanyo VRF family and uses the same controls and indoor units as the rest of the range. Therefore, the



Sanyo's newly-introduced ECO G Gas Heat Pump Range

ability to mix and match with electric VRF and splits on site is easy and convenient for the client.

The ECO G Range provides quick and powerful cooling/heating and the efficient recovery of waste heat. Not only is the gas used as the heat source, but the waste heat from combustion is also recovered and re-used with high efficiency by Sanyo's cutting-edge technology. Energy loss is therefore prevented and powerful heating with quick-start has been achieved.

Contact: Barry Hennessy, Sanyo Air Conditioners.
Tel: 01 - 456 8910;
www.sanyoaircon.com

Century Homes Sold For €98 Million

Century Homes has been sold to Kingspan Group plc for €98 million. The deal is conditional, *inter alia*, on receipt of Competition Authority approval and third party consents.

As part of the agreement, the senior management of Century Homes will remain with the business and work alongside the Kingspan management team.

IDHE Conference Success

As we went to press the IDHE was holding a conference entitled "IDHE — The Voice of the Heating Industry" in Moran's Red Cow Hotel in Dublin. The high-profile speaker line-up included Kevin O'Rourke, SEI; Brian Maguire, Danfoss; Rod Hickmott, Uponor; Eric West, Kingsmart Design; and Alan Hogan, Precision Heating.

There was an excellent delegate turnout with everyone responding enthusiastically to each presentation. Indeed, the quality of the information as delivered by the speakers served to generate considerable discussion after each paper, prompting Chairman Jimmy Hamilton to frequently interject to get the schedule back on track.

BSNews will carry a full report — including photographs — in the April 2005 issue.

OFTEC Sets Up Irish Office

OFTEC has set up a dedicated office — OFTEC Ireland — to represent the oil-firing industry in Ireland. It is headed up by David Blevings in affiliation with the NIOF (Northern Ireland Oil Federation), Peter Conway from OPFI (Oil Promotion Federation of Ireland) and James McGreer.

"For some time now



we've recognised that we need to develop stronger links between the distribution and installer trades", said Richard

Gales, Chief Executive of OFTEC. "Bringing together the combined knowledge and skills of the NIOF, OPFI and OFTEC cements the bonds between distributors and technicians to provide a one-stop heating solution for the customer."

Both distributors and technicians.

Contact: James McGreer, OFTEC Ireland.
Tel: 1890 - 252 066;
email: jmcgreer@oftec.org

Safeguard Seeks External Salesperson

Safeguard Systems is an Irish company operating in the building services industry, offering market-leading and innovative life safety products. Due to continued growth Safeguard is looking for an experienced sales person with a proven track record, to cover the 26 counties, selling, promoting and developing the existing customer base. It would

be an advantage to have a building services related background.

A more than generous remuneration package will be offered to the successful candidate.

CV's to:

Safeguard Systems, Unit 34,
Southern Cross Business
Park, Bray, Co Wicklow.
Tel: 01- 276 1600;
Fax: 01- 276 161;
email: info@safeguard.ie

Toshiba Daiseikai 2

The new state-of-the-art Daiseikai R401A split system heat pumps from Toshiba combine attractive styling with advanced inverter technology and optimised indoor air quality. They use single inverters for smooth capacity control and are ideal for specialised small commercial applications such as dentists, vets and other medical installations. Key features include:—

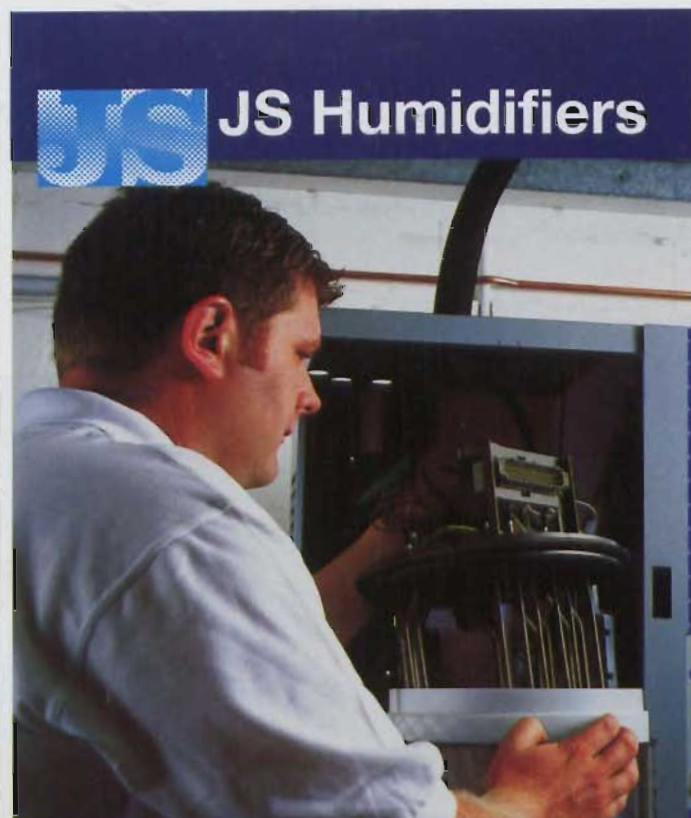
- Triple Zeolite 3G filter (deodorising and plasma pure) for fast removal of pollutants and odours;
- Air ioniser for optimum relaxed user comfort and well-being;
- Superior COP for lowest energy

- consumption (up to 20% higher than conventional inverter models);
- Elegant design with clean lines;
- Precise capacity control at all conditions;
- Innovative inverter technology for precise temperature control;
- Quiet operation;
- Easy installation and maintenance;
- Uses non-ozone depleting refrigerant R410A;
- Extremely energy efficient (Rated A as per UK Energy Labelling Regulations).

Contact: Derek Phelan,
GT Phelan.
Tel: 01 - 286 4377;
email: gtphelan@eircom.net



The new Toshiba Daiseikai 2 from GT Phelan



Humidifier Servicing & Maintenance

- Servicing of all makes and models
- Commissioning
- Spares
- Planned maintenance agreements
- Free advice & site surveys

A humidifier is a specialist piece of equipment that needs expert maintenance to ensure optimum, economic and hygienic operation.

With the largest team of specialist humidifier service engineers in Europe we will ensure you never have to worry about your humidifiers again.



Think humidifiers:
call JS!



Tel: +44 1903 850200
Fax: +44 1903 850345
Email: sales@jshumidifiers.com

www.jshumidifiers.com

Dean & Wood Open Day

Dean & Wood celebrated the formal opening of its Dublin Branch with an open day for customers, suppliers and other guests earlier this month.

The occasion was informal and relaxed with the Dean & Wood Dublin team members on hand to meet and greet visitors, and to show them around the trade counter and warehousing facilities. Located at Airtown Close in Tallaght,

Dublin 24, the premises mirrors the design style and layout of all Dean & Wood outlets.

Representatives from leading manufacturers were also present, including those from Danfoss Ireland, Harp, ITE, Pump House and Anglo Nordic.

Contact: Dean & Wood Ireland.

Tel: 01 - 01 451 4100; email: dwi@dean-wood.com



Guests pictured during the Dean & Wood open day at its Dublin 24 based outlet earlier this month

SEI Energy-Related Courses

Forthcoming courses under the current SEI energy-related programme include the following:—

Energy Management

Venue: Stephen's Green Hotel, Dublin 2;
Date: Wednesday 13 April to Friday 15 April inclusive;
Cost: €847 (VAT included).

Refrigeration & Cooling

Venue: Gresham Hotel,

Cork;

Date: Wednesday 1 June;

Cost: €302.50 (VAT included).

Lighting

Venue: Stephen's Green Hotel, Dublin 2;

Date: Wednesday 27 April;

Cost: €302.50 (VAT included).

Contact: Emer Craven, SEI.

Tel: 01 - 808 2067;

email: emer.craven@sei.ie

DAB Inverter-Controlled Booster Sets

The latest range of DAB inverter-controlled, constant-pressure, booster sets incorporate DAB's unique Active Driver 1 which is a comprehensive device that includes hydraulic system connections, a pressure sensor, a flow sensor, and an electronic frequency converter (inverter).

Active Driver 1 regulates the rotation speed of the electric pump to which it is connected, maintaining constant pressure in relation to the flow rate variation of the water. The water that flows through the Active Driver 1 also helps to cool the internal electronic components.

When the pressure on the system drops due to water extraction, all pumps automatically cut-in for a few seconds at a reduced speed and based on the required water extraction. Following this, just a single pump remains modulated to satisfy the required flow rate of water.

When the first pump reaches its maximum rotation speed, the second pump starts in cascade. The user can adjust the pressure of the pumps by means of the two + and - buttons on the Active Driver 1 (the pumps are set as standard at the same pressure value).



The DAB Active Driver 1 inverter-controlled, constant-pressure booster set available from Consolidated Pumps

The pumps cut out under the following conditions — pump overcurrent; dry running; low supply voltage; max pressure value exceeded (adjustable); Active Driver 1 electronic components overheating.

Dual pump groups with Active Driver 1 are supplied along with a safety control unit with magneto-thermal-cut-out and power supply input terminal board.

Main benefits of the new DAB inverter-controlled booster sets are constant pressure; silent running; reduced running costs; reduced water consumption; compact size (expansion tanks are not necessary); reduced maintenance; and protection against operation without water.

Contact: Roy Tolan, Consolidated Pumps.

Tel: 01 - 459 3471;

email:

info@consolidatedpumps.com



Enter a new era with Toshiba's R410A Super MMS Modular Multi System



Toshiba's new and innovative VRF system operates on the energy-efficient, non-ozone-depleting refrigerant R410A. All compressors in the Super MMS are inverter driven, which is unique to the VRF market.



Additional Super MMS benefits include:

- All condensing units incorporate two twin-rotary DC compressors
- Extended pipe runs for greater application flexibility
- Cooling capacity 14 to 135 kW, heating capacity 16 to 150 kW
- A combination of several outdoor units can serve up to 48 indoor units
- A total of 9 models with 84 indoor units available
- Highest energy efficiency in its class
- Light weight, compact design for ease of installation
- State-of-the-art communication bus system with automatic addressing
- BMS-compatible

Toshiba - the innovator you can trust

Contact us today for more information on the new Super MMS System.



R410A

From Termites To Triangular Buildings



Ken Shuttleworth, the renowned architect who was responsible for the glass-clad Gherkin building in London, has undergone something of a conversion. He now says it is vital to move away from building design which requires energy-intensive building services solutions in favour of more natural solutions.

His proposed new 28-storey Kite tower for Leeds epitomises this view. Its form is triangular ... with a twist. There are six facades, all kite-shaped, three with the point at the top and three with the point at the bottom. So, it's a perfect triangle on the ground and top floors with the floors between all hexagonal.

For ventilation the

windows are punched in where needed with large openings on to balconies for living rooms, and slit windows for bathrooms and bedrooms. Each ten storeys of offices will be cooled by air which flows along an 800m duct just one metre below the ground, reducing temperature to the desired 21°C. Apparently, it is based on the principle of termite mounds which have natural ventilation shafts which ensure a constant temperature.



At present the project is on hold but Shuttleworth is confident that, if it does not go ahead in Leeds, a version of the Kite tower will be built sooner rather than later.

Heatrae Sadia Amptec Electric Boilers

Whether in rural areas, new housing projects, in multi-floor dwellings or in other homes with no mains gas supply, Amptec electric flow boilers offer the comfort and convenience of wet central heating and hot water supply, wherever there is mains electricity.

Amptec electric flow boilers are sized to efficiently meet a wide range of differing needs, from a mobile home up to a family house. Included is an 11kW unit designed to match the rating of existing domestic electrical power supplies.

In rented property, gas applications must have annual maintenance checks by law. The Amptec electric flow boiler offers an alternative for heating and hot water, combining safety with low running costs.

Main features and benefits are:—

- Compact design (1m long by 90mm square);
- Simple installation (no flue required);
- Finger-tip control (for comfort, convenience and economy);



The Amptec electric flow boiler

- Range of models (for radiator or underfloor heating systems);
 - Range of outputs (4kW to 12kW: boilers can be linked for higher outputs);
 - Controls: Variable temperature output 65°C - 80°C (and 30°C - 60°C on underfloor units);
 - Thermal Safety: Re-settable thermal safety cut out;
 - BEAB approved.
- Contact: Vincent Broderick, Potterton Myson (Irl).
Tel: 01 - 459 0870;
email: post@potterton-myson.ie

RACGS 2005 Programme

Details of the 2005 RACGS programme of outings are as follows:—

- Thursday, 14 April, Carlow GC;
- Thursday, 19 May, Rathsallagh GC;
- Friday, 9 September, Hermitage GC (Killenard);
- Friday, 14 October, Hermitage GC (Lucan);
- Thursday, 1 December, Rosslare GC.

To reserve tee times contact Kaye.

Tel: 045 - 893 228.

economical ecological ecolution: high performance solution



ECOLUTION is the new generation of split, multi-split and VRF inverter systems from Mitsubishi Heavy Industries Ltd.

Packed with new features, our intelligent design ensures high performance combined with ultra energy efficiency. All models are now quieter, smaller and lighter, allowing a simple and neat installation for applications from a single room to an entire building.

ECOLUTION - high performance solution.



Win a Sanyo Hi-fi Reader competition

Can you Spot the Difference?

Enter our reader competition and you could win a fantastic Hi-fi in our prize draw. Simply spot the 5 differences between the pictures below.



Picture A



Picture B

The changes to picture B are:

1. _____
2. _____
3. _____
4. _____
5. _____

Name: _____

Company: _____

Address: _____

Postcode: _____

Email: _____

Tel: _____

Complete the details, copy and FAX back to BSNews

on 01 288 6966

Sponsored by

SANYO

AIR CONDITIONERS

Rules: Competition open to anyone over the age of 16. One entry per person. Entries must be received by 15/04/2005

IPFMA Lunch & Diploma Presentations

Close to 350 members and guests attended the annual members lunch of the Irish Property and Facility Management Association (IPFMA) which took place in the Burlington Hotel, Dublin, recently.

As is customary, the occasion was also used to present the

Association's Student Awards. This year 19 diplomas were presented to graduates of the Irish property and facilities management course, a one-year diploma course run by the IPFMA.

Contact: Brian Whelan, IPFMA.
Tel: 01 - 676 5500.



Jerome O'Connor, Hamilton Osborne King, Chairman of the Irish Property and Facility Management Association with Fiona Motherwell, Bruce Shaw Facility Management, top graduate of the IPFMA diploma course, and Des Byrne of Druker Fanning & Partners, President of the Society of Chartered Surveyors

Mostra Convegno 2006

Mostra Convegno Expocomfort (MCE) has adopted a new formula for 2006 to provide an integrated system where cultural debates, market scenarios, innovation, technology, design, products and solutions can be assessed and debated.

MCE 2006 also has a new logo, the different colours of the three waves representing heat, air and water, while their movement represents energy.

The lay-out of the exhibition — to be staged from 28 February to 4 March 2006 at the



new Rho-Pero trade fair grounds — will be arranged in different sectors following productive and distributive development in line with the industrial concepts of heat, cold, water and energy, which correspond to the commodity sectors of heating, cooling, plumbing technology, bathroom fittings and renewable energies.

IRISH FAN DISTRIBUTORS

et al.: RS News

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WATERFORD, IRELAND.

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JS Take Hassle Out Of Humidifiers



JS Humidifiers ... taking the hassle out of humidifiers

Humidifiers are essential in commercial air conditioning and heating systems, and many production processes but, due to their technical nature, are often neglected and left operating at low output or not at all due to a lack of servicing.

The problem is that there is such a wide variety of humidifiers in use it is difficult for even

skilled maintenance personnel to service them without specialist training and knowledge of each individual unit. Add to this the fact that these systems contain water and must be subject to L8 testing requirements and this often makes humidifier maintenance a very complex issue.

With the largest specialist team of humidifier maintenance engineers in Europe and the launch of a new worry-free planned maintenance agreement, JS Humidifiers is taking the hassle out of humidifiers.

The company's new humidifier maintenance agreement covers not just the service of humidifiers at appropriate and agreed intervals, but also regular on-site

inspections by JS personnel of the units to ensure they are running correctly. This relieves the person responsible for the building's maintenance from any burden incurred as a result of the humidifier.

If any work needs to be carried out then the engineer will do so under the agreement and, as the system is being closely monitored, downtime is kept to an absolute minimum. The maintenance agreement also provides customers with 5% off all service spares, extended warranties, service history reports and recommended spares lists.

JS supplies a wide range of humidifiers but services, maintains and supplies spare parts for all makes and models – not just its own. JS also has a dedicated service division based in the

Republic of Ireland to serve its Irish-based customers. Maintenance professionals requiring technical advice and support can talk to a specialist humidifier engineer, free of charge, at Tel: 0044 1903 850200.

Also, anybody unsure of their humidifier requirements or wishing to have their units checked-over can call for a free site survey. An engineer will visit their site and verify the humidifiers' running performance, as well as provide advice on lower energy alternatives, humidifier selection and position, and health and safety implications, including Legionnaires disease.

Contact: JS Humidifiers.
Tel: 0044 1903 850200;
email: info@jshumidifiers.com

3D Air Sales Reaps HRP Benefits

While it is just three months since 3D Air Sales was acquired by HRP, the refrigeration and air conditioning Group, Michael Clancy and his team at 3D Air Sales (Ireland) are already reaping the benefits. The same applies to its extensive nationwide dealer network.

The day-to-day trading arrangements remain unchanged but, the strength of the

support services provided and the scope of the product range have both been dramatically improved. The entire product complement is now 410A based with individual product ranges specifically designed to cater for all market segments.

The sales and marketing impetus has also been strengthened with extensive advertising and PR campaigns now being

supported by a series of nationwide road shows, details of which will be announced shortly.

To better deliver this improved service 3D Air Sales is also in the process of recruiting another technical sales engineer, and looking to acquire larger premises to accommodate the rapid growth now anticipated.

"The HRP development came at the perfect time for us" says Michael Clancy, Director, 3D Air Sales (Ireland). "Having made significant market-share inroads

over the last couple of years, we were poised to move on to the next phase in our development strategy. The additional strength afforded by being part of HRP has allowed us to progress these plans earlier, and given us to means to implement them in a more cohesive and constructive manner."

Contact: Michael Clancy, 3D Air Sales (Ireland).
Tel: 01 - 462 7570;
email: micclan1@eircom.net



**Working together Lowara & Vogel have
more innovation, strengths and support.
The future is in our hands**

Lowara and Vogel have combined forces, to share their resources and technical strengths to provide advanced and comprehensive solutions for all pumping problems.

This is the clever thing to do, as everyone knows in unity there is strength.

European Italiana

www.lowara.com

Published by ARROW@TU Dublin, 2005

Lowara



ITT Industries
Engineered for life

Frank Byrne



Frank Byrne

The sudden death of Frank Byrne came as a shock to all of us who knew him. Frank retired some years ago and went to live with his wife, Mary, in Tralee where they both quickly integrated into the local community.

Frank's musical recording skills, computer knowledge and digital photography work became well-known and such services were freely given, at no cost, and acknowledged by the local clergy at Frank's funeral.

Very generous with his time and patience, Frank was always eager to please and no problem or task was too great for him.

Frank was a man before his time as recalled by Ray Byrne who, in his early 60s after installing an electronically-controlled oven in a hospital in Killarney, was having difficulty getting someone to wire it up. Frank's late brother Paddy was on site and, having heard about the problem, summoned Frank from Dublin and the oven was duly operational the next day.

As a keen motoring enthusiast Frank was a frequent traveller to the Continent and looked forward to his motoring holiday with Mary every year.

After living and working in England as a heating controls

engineer, Frank returned to Ireland where he worked for HA O'Neills for a time before joining the Landis & Gyr section of Brown Boveri.

Frank's expertise in heating controls was second to none. He was always seeking the new product or gizmo and his questions at new product launches were always probing and intensive. His skill at the drawing board with hydraulics and schematics was brilliant and this was before the fax machine and computer entered the office.

This brings us to another era in Frank's life ... the computer. While many of us initially saw it as something to be avoided, Frank embraced it as a blessing for his schematics, slides and photography work.

Devoting many free hours in the evening to give computer classes, Frank would only finish the class when we asked him: "Have you no home to go to?" I don't know how his wife Mary put up with all his late hours, be it working late in the office or travelling back from a site in the country. All I know is they were both glowing with praise for each other, and their family.

Sleep well Frank ... we will always remember you.
MM



REGII Negotiates Dedicated Installer Insurance Package With Aon

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REGII has negotiated an arrangement for *bona fide* domestic installers (gas and oil) with Aon Insurance Brokers to secure insurance (commercial and personal) that will offer members excellent advice, service and cover at highly-competitive terms.

This initiative stems from extensive work between REGII and Aon to deliver appropriate insurance cover and excellent advice "specifically devised to meet the particular needs of domestic installers".

Key features of the programme are as follows:—

Policy Cover

- Employers liability;
- Public/Products liability;
- Income replacement of up to €1,500 per month;
- Hospital cash of up to €200 per day;
- Death and disability benefits with a lump sum of up to €100,000;
- Intensive care benefit of €400 per overnight stay.

Aon can also cover all your personal insurances, including Pensions & Savings and Investments.

Service

- A team dedicated to serving the needs of domestic installers has been established within Aon, operating to the



- highest standards of service;
- Expert advice is available in the areas of incident, risk and claims management, as well as contract conditions etc;

- Emergency help line for out-of-hours queries;
- Lobbying to protect consumers from uninsured installers.

Expertise

"Aon" is the Irish for "One". Its Chairman

and Chief Executive, Patrick Ryan, is an Irish-American who started as an entrepreneur and now operates in 125 countries with 55,000 employees in more than 600 offices. In 2003 Aon reported revenues of \$9.8 billion.

Ryan was the 2002 recipient of the Golden Plate Award from the Academy of Achievement in Ireland and received the highest accolade from the Irish US Council in 2003 for "outstanding achievement in Irish US business relations".

In Ireland Aon employs 445 people with three offices in Dublin and one each in Belfast, Cork, Limerick and Mullingar.

Aon is the largest broker to the Construction and Allied Trades Sector in Ireland and is also broker to CORGI (Confederation of Registered Gas Installers) in the UK. This expertise puts Aon in a unique position to add value to your business.

Dave Watkin and Ray Keogh will be managing the dedicated Installer Programme and organising contact with all domestic installers.

Contact: Dave Watkin, Aon.
Tel: 044 - 34074;
Mobile: 086-856-0165;
Ray Keogh, Aon.
Tel: 044 - 34072;
Mobile: 086 - 238 9825.





Tenant Handbook



By Denis O'Connor,
Irish Estates.

Tel: 01 - 704 1400;
www.irishestates.ie

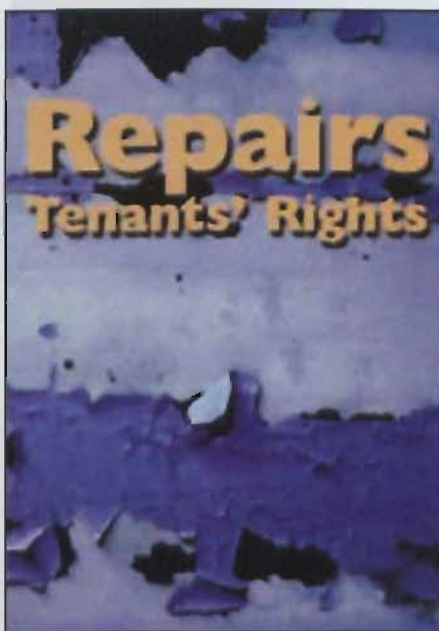
The construction of every development — large or small and whether it is for residential, office or retail use — involves the input, expertise and some may say blood, sweat and tears of a large number of consultants. The nucleus of these consultants is the design and construction team, consisting of architects, mechanical designers, building contractors, electrical engineers and subcontracted trades. Each of these team members supplies data on their systems which is eventually compiled into an operational manual for the property.

The operational manual sets out how each element was designed, constructed and installed and also details the maintenance required to ensure the building operates to its optimum performance. These are copious and detailed documents and for some developments may even fill a room.

As a tenant takes occupation of their new premises they are

provided with these documents, as well as an occupational lease which sets out the landlord's and their own obligations. This forms the basis of the rules for their occupation of the property. In some shape or form these documents hit the tenant's facility manager's desk *en masse*.

As part of our property management service Irish Estates provides each tenant with a "Tenant Handbook". This condenses all of the information contained in the operational manual and the lease into a single document, together with the procedures for the management of the building. The handbook allows a tenant to find the information they require without having to trawl through



the detailed documents.

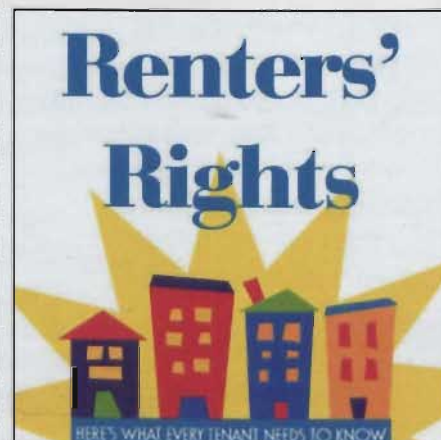
For example, if a tenant requires to carry out work on any element of their demise, say a mechanical or electrical item, the handbook provides information on who installed the item, the make and model of the item, who provides maintenance in the landlord areas, etc. The handbook will refer the tenant to the relevant section of the operational manual and, in most cases, to a member of the management team who can advise them directly.

A typical Tenant Handbook contains the following information:—

- Lease details;
- Landlord management service;
- Copy service charge budget;
- Management agent contact details;
- Operational details for the building;
- Opening times/out of hours procedures;
- Security procedures;
- Cleaning specifications;
- Service contractor details;
- Car park procedures;
- Health and safety statement;
- Emergency evacuation procedures;
- Planned preventative maintenance planner;
- Work access arrangements;
- Delivery strategy;
- Procedures for reactive maintenance – help desk details etc.

The handbook also details procedures for:—

- Obtaining landlord consent for fit out works and alterations;
- Assignments;
- Sub-letting;
- Processing insurance claims;
- Waste management procedure;
- Building plans;
- Details of design team for the scheme;
- Location of all information in operational manual.



Tenant Handbook

General information covered includes:—

- Emergency numbers;
- Location of nearest train, bus, Luas, etc;
- Nearby restaurants;
- Hotels etc.

Effectively, the Tenant Handbook takes the mystery out of the vast number of documents that a tenant is presented with and provides a basic procedures manual to allow the tenant deal with any issue that may arise during their period of occupation in the building.

For example, the Tenant Handbook can be provided to a consultant working on internal works for the tenant so that they are clearly guided in what they can



do, what information they must provide before carrying out any works, and where information can be obtained.

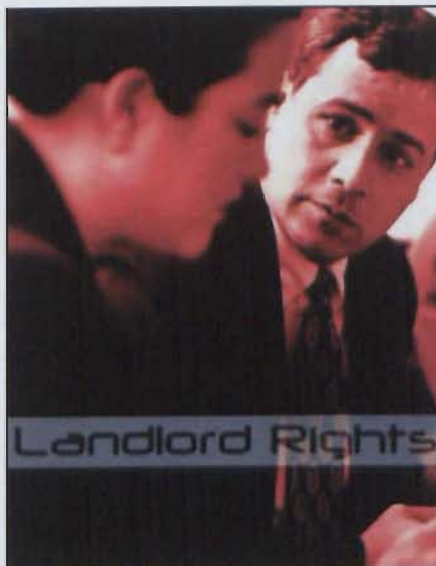
It is very important, not just from an economic view point, that all tenants are fully aware of what is covered under the service charge. The Tenant Handbook clearly sets down the services and service levels provided by the landlord's managing agent and each contractor involved in the day-to-day running of the property.

Armed with the information contained in the handbook, a tenant



can be clear about what is covered under the landlord areas and can place contracts for maintenance in their own demise using the same contractors if they so wish, thereby obtaining economies of scale. It also provides clarity on where their responsibility starts and ends.

In essence a Tenant Handbook makes the life of a tenant easier; it tells the tenant how everything works in their building and where



to go if any issue arises. From a landlord's point of view, the handbook sets out clearly how their rent-paying tenants should deal with each and every issue, and how they can remain in compliance with the terms of their lease.

Tenant Handbooks are provided in simple lever arch format so that all updates issued by the managing agent can simply replace the previous issue. Updates are provided at regular intervals and include service charge actual versus expenditure reports, maintenance updates, changes in local train times, etc.

The Tenant Handbook is the rule book for the scheme and is drafted to de-mystify all the many documents that the landlord and tenant must comply with. It takes the legalese out of the lease and the techno-speak from the technical documents, making life easier for the tenant and landlord alike.

Heating Contractors In Pivotal Position To Influence Quality Practices

Building Services News, Vol. 44, Iss. 3 [2005], Art. 1

Mr Kevin O'Rourke, SEI. email: kevin.orourke@sei.ie



Nine out of ten Irish homes are now centrally heated. But how comfortable, how efficient, how economical, and how environment-friendly does this make us?, asks Kevin O'Rourke, SEI

First the good news

Today, 90% of Ireland's housing stock is centrally heated, compared with 25% in the 1970s. This remarkably means that well over one million domestic new central heating systems have been installed in the interim, and that doesn't cover replacement systems.

As for the market shares based on fuel source, Ireland differs from its EU neighbours where gas often predominates. Here oil (of which three quarters is kerosene) has a 38% share, compared with natural gas at 25%. See figure 1.

What's more, we have seen some quiet revolutions in technology and its acceptance by contractors and consumers alike. In the main these have been fairly simple developments like balanced flue appliances, thermostatic radiator valves, digital programmers, underfloor heating, combi boilers and

condensing boilers. Initially, these were viewed by some as futuristic but are now seen as commonplace. In general, such developments have offered higher efficiency, control and value-for-money to the householder. They can often carry other benefits such as the additional safety draught benefits of balanced flues, which are usually also simpler and cheaper to install.

Now for the bad news

Despite this progress we can still do better ... a lot better. The overall efficiency of a typical centrally-heated Irish home today can probably be improved by up to one fifth by making a few simple choices in the best technologies, by improved design and installation practice, and by improved consumer information on correct system operation and maintenance. These savings are on top of any improvements arising from better insulation, draught-proofing and ventilation control of the house itself.

Today, we experience a different sense of crisis than in the 1970s, and for three reasons. Firstly, there is a general awareness about global warming arising from the fuels we burn, with domestic heating representing a quarter of Ireland's energy related CO₂ emissions. Space and water heating for the average house costs over €800 and is responsible

for around six tonnes of CO₂ emissions per annum.

Secondly, we have seen a surge in world oil and gas prices in recent years, and domestic fuel prices have risen over 40% since 2001. This is driven by political factors certainly, but also more fundamentally by the prospect of long-term demand (with growth especially from China) for these fuels exceeding supply.

This in turn is linked to the third factor — security of supply. In this regard Ireland is particularly vulnerable, with 90% of current energy use being imported (over 85% of our gas is imported), compared with less than 50% across the EU 25.

These national challenges carry real downstream economic and lifestyle hazards for the consumer. They highlight a professional obligation on the heating industry to provide consumers with systems which are, if not truly "sustainable", then as sustainable as possible.

However, the evidence from limited market research and industry consultation by SEI is that, by the standards of today's regulations and technologies, a significant proportion of systems being installed in today's homes could best be described as barely adequate in meeting this obligation. This applies both to product selection and quality of installation.

Facing the challenge – first principles

Happily, improvements in technology will continue to help the industry to face these problems and challenges, and provide customers with the benefit of extracting maximum value from the fuels they buy. We usually think of a heating system in terms of the fuel it uses — oil, gas, peat, coal, wood, electricity and the emerging renewable energy forms like heat pumps and solar. This is rightly so, as this decision relating to future availability and price of fuel is fundamental to the sustainability of a system that should have a life exceeding 20 years. Here natural gas appears to be the preferred option when available, with oil as the clear alternative, and occasional traditional solid fuel and electrical storage heating.

However, a niche interest in renewable energies such as solar, heat pumps and automatic wood pellet boilers (a direct competitor with oil) is emerging. Here the trade-off is with higher capital and possibly maintenance costs against lower fuel costs.

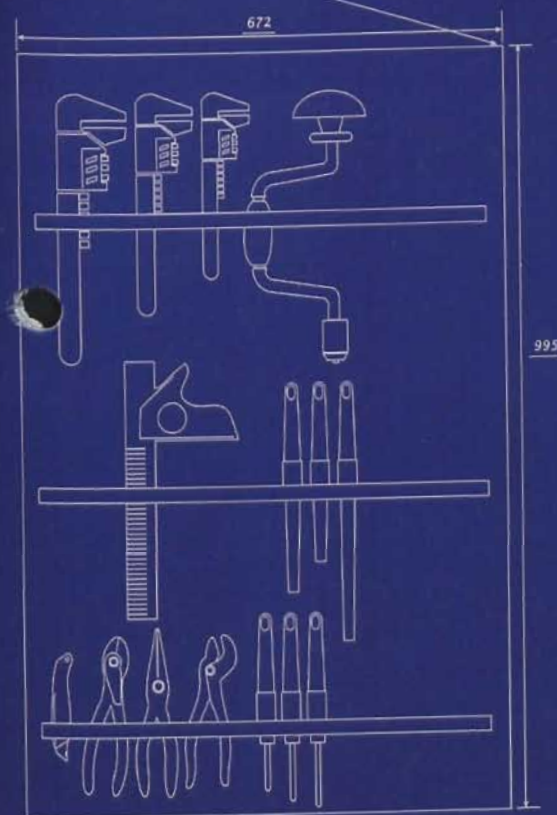
At the heart of things, we should remember that any central heating system consists of five main parts: —

- (1) A heat generator — boiler, heat pump or solar collector;
- (2) A circuit of heat distribution pipes or warm air ducts;
- (3) Space heat emitters —

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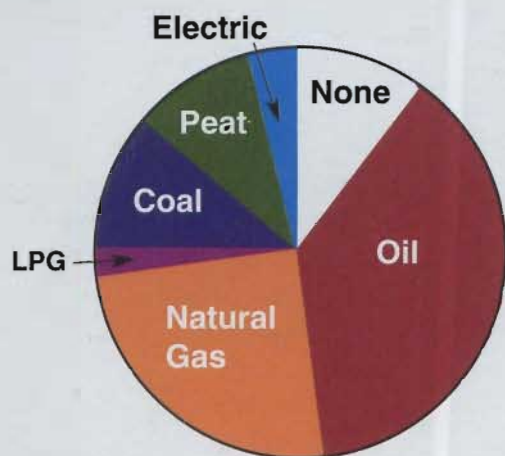


Figure 1 — Pie Chart

DOMESTIC BOILERS

usually radiators or underfloor pipes;
(4) Hot water services – usually a cylinder, but sometimes instantaneous heating such as “combi” boilers;
(5) Automatic heating controls to regulate the duty periods and levels of heating required.
Other necessary elements are also shown in Figure 2 (see page 22).

With electrical storage heating, the first three of these are combined. This has been remarkably common in the apartment market, where gas is gaining in popularity. In housing as a whole, radiator systems still dominate but underfloor heating, common in continental Europe, and warm air heating and ventilation systems, are slowly but steadily gaining a hold.

For the householder, choosing a heating system is a lifestyle decision, a serious up-front cost decision and a signed up commitment to a level of ongoing running costs. The lifestyle and “fitness for purpose” factors which influence – or

should influence – householder or specifier choice can be broken down as:—

- Safety ... against fire hazard, fumes, explosion, collapse, or surface burns;
- Comfort ... not just temperature, but adequate ventilation while avoiding draughts, and low noise and dust;
- Convenience ... in terms of cleanliness, controllability, space saving and fuel purchase/storage/delivery arrangements;
- Reliability ... and servicing and maintenance requirements;
- Economy ... installation cost and running cost, which reflects the purchase price of the fuel and the conversion efficiency of the system;
- Greenness ... how low is the fuel and heating system on pollutant emissions?

The above factors in turn have contributed to the increasing popularity of certain types of technology, eg balanced flue boilers, thermostatic radiator valves. However,

no contractor will need reminding that the majority of householders — and builders — want most or all the above but at a minimum capital cost. I believe that delivering the client a solution which rises above the mere adequate demands a professional approach by the heating contractor. He must communicate a scoresheet of the above issues to the client, the packaging an offer (with variants) accordingly, and install and commission to a high standard. The reference to variants calls for an approach rather like that of the motor dealer who demonstrates a range of different performance and price options within their “fleet” of offerings, as part of a professional service.

With new technologies, components and systems, however advantageous, the biggest scope for problems and distraction in the heating business arises from unfamiliarity and misunderstanding, by installer and/or user. Market acceptance will depend not only on cost but on installer attitudes and back-up service.

There is an opportunity here to deliver a solution which is a win for both contractor and client, if the options and benefits are made visible and good guidance is given on the proper operation and maintenance of the system. This requires installers and product suppliers to work particularly closely together.

Facing the challenge – technology opportunities

There is a vast selection of product offerings on the market, whether choosing a new system or upgrading an existing one. While this article can only touch on some of the options, here are three technology thoughts to consider, in the interests of seeking a win-win solution with the consumer and client:

First, boiler technology really has advanced. Today’s generation of condensing boilers is capable of operating at efficiencies of well over 90%, or around 10 percentage points better than even the best conventional boilers. In pulling more heat out of the boiler gases, they need a higher grade heat exchanger and some other features which add to the price. Every major boiler manufacturer either has a condensing model available right now, or will soon have.

Interestingly, in effect the only new gas boilers legally permitted in England & Wales from April 2005 must be condensing. The same will apply to oil (kerosene) fired condensing boilers from April 2007.

A little thought is also required to ensure proper system configuration for proper operation. Condensing technology is the victim of some myth and misunderstanding but, for a skilled contractor, this class of boiler should be no more difficult to fit than a regular boiler. It should also be just as easy to maintain.

CONDENSING

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Contact Tony Macken (sales manager) Tel. 086 253 2997

Second, if going for an oil or gas boiler system, as an installer you need to make sure that it complies with the EU Boiler Efficiency Directive. This Directive has been mandatory in Ireland since 1998, but has received little publicity. Under the Directive, it's illegal to sell a boiler which does not meet prescribed efficiency levels (full and part load) when tested by a recognised testing authority. What's more, the boiler must carry the CE mark, together with the identifying code of that testing authority.

Third, there is a really good choice of smart, simple and relatively cheap heating controls available, whatever the system. These allow the user to regulate the heating on a time/temperature/zone basis. This is on top of Building Regulations requirements for new-build in relation to insulation of hot water cylinders and pipework, and the provision of basic automatic controls. With modern lifestyles, at a minimum a 7-day programmable timer should be installed, either a clock type or digital display type. The need for zone controls has already been highlighted above. Also, consider installing with a separately-controlled (thermostat/valve) circuit from the boiler for hot water heating ... hot water is needed all year round and at a higher temperature (for storage to avoid

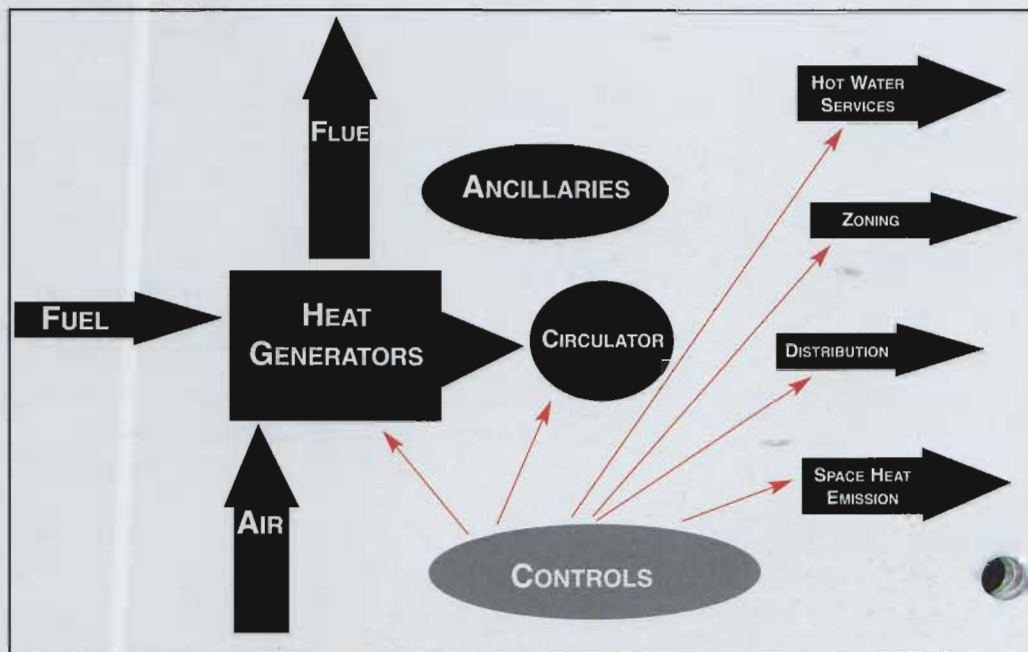


Figure 2

legionella) than for space heating.

These technologies are simple but smart, cost very little in the context of an overall system, and will give the consumer the best in modern comfort, convenience. They also save them money over their lifetime. To reiterate, this needs to be part of the sales pitch and service delivery by a professional installer, not an approach which seeks bare functional adequacy.

More excitement is on the way by way of technology, much of it supported by SEI's "House of Tomorrow" programme which demonstrates superior solutions in private and social housing developments. This aims to show that it is technically and economically possible here and now to design and build houses which are even more comfortable, convenient, cheaper to run and environmentally-friendly

than what current building regulations require.

Apart from more valuable homes for the customers, this should stimulate the widespread adoption of improved energy technology and practice in Irish housing, learning from the best and applying it. To date, over 1700 homes have been approved under this scheme, including gas and oil condensing boilers, combi boilers, solar space and water heating, heat pumps, wood pellet boilers, group/district heating and mechanical ventilation systems with heat recovery.

Delivering quality – through "competent persons"

Notwithstanding the positive potential conveyed above, those working in the industry know that one important area of deficit in Ireland is the lack of a widely-recognised "competent persons" scheme

governing heating systems as a whole (not just the fuel side) whereby the client has an independent assurance of the credentials of the installer and the qualified installer can differentiate themselves from the unqualified. This similarly restricts government bodies such as SEI from providing references or endorsements.

It contrasts starkly with the positive structures that have emerged over the past 20 years in the electrical contracting field, with two registration bodies now officially recognised in this regard by the Commission for Energy Regulation (CER).

Certain regulatory developments, such as strengthening Building Regulations, the Boiler Efficiency Directive and Energy Performance of Buildings Directive, directly require or indirectly imply better specified heating systems. It is also probable that

CUTTING EDGE, BRAND LEADING BOILER TECHNOLOGY FROM **HEATMERCHANTS**



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Radiant RK 25



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Heating Contractors In Pivotal Position To Influence Quality Practices

Building Services News, Vol. 44, Iss. 3 [2005], Art. 1

most installers competing in the market have some basic training in safety and appliance installation, but this will not in itself ensure that systems are truly "fit for purpose" in terms of economy, reliability and durability.

What's more, we have a number of educational and training establishments with the capacity to provide comprehensive courses. However, in Ireland to date no official competent persons schemes as such have been developed. This lags behind the UK where the latest Building Regulations, for example, now make explicit reference to competent persons.

Indeed, there is a common perception that "the market" doesn't demand quality, and is driven by low capital cost and what are seen as low-risk solutions, even when they do not ultimately represent value for money. Many clients are simply unaware of the range and merits of different heating technology options and have no easy means of differentiating either superior products or better quality installers from the rest of the field.

As a result, manufacturers have difficulty selling advanced higher value products, and the more professional installers can be under-priced by others without adequate training and experience, reducing the motivation to seek professional education or

accreditation.

To begin to tackle this vicious cycle and turn it into a virtuous cycle, the electrical installation experience provides a good analogy. This means having an integrated scheme that is developed, branded, marketed and administered so that: — (a) Registered members are motivated to join, commit to meeting its prescribed training requirements, and work to its standards and codes of practice; (b) Potential clients are motivated to engage such installers on the basis of their confidence in the competence, technical back-up and consumer recourse mechanisms in such an integrated scheme; (c) Public authorities will be motivated to recognise and publicly promote such installers.

Regarding the latter, it is interesting that a recent CER consultation document looking to a liberalised gas market concerns competent persons for gas installation work.

SEI is supportive of such an initiative for the domestic heating sector and over the past year has been consulting with various industry interests under the aegis of its "SEBNet" (Sustainable Energy Buildings Network) activities. We are keen to move forward with a structured proposal aimed at leading to an integrated scheme of the type described,

supporting the development of industry-led registration bodies funded by member fees and services, possibly in partnership with other educational and training bodies. This would apply ultimately to all heating systems, irrespective of fuel source, whether fossil fuel or renewable energy based.

One example of how progress can be made is the OFTEC (the Oil Fired Technical Association) quality assurance scheme based on training and registration of its installer members. Having a well-qualified heating installer is especially important with condensing boilers, and with renewable energy sources, which need somewhat different plumbing arrangements to traditional methods.

Conclusion

The interests of the domestic heating industry, with its annual turnover approaching €500 million, lie in delivering quality systems to its clients, which means quality products specified and installed only by qualified people. Regulations are only part of the response needed to meet environmental targets.

In this rapidly-changing world, new and improved energy technologies are constantly emerging. Housing is strongly — and rightly — influenced by tradition but no less than any other industry, it

has had to adapt to changing consumer needs and to avail of developments in design and technology. Here the heating contractor is often in a pivotal role as the expert on whom the client relies to act as adviser, specifier and installer. The average consumer will tend to accept that advice, and be persuaded or dissuaded by the views of the installer.

This presents the installer with both an obligation and an opportunity to keep abreast of evolving best practice, to properly brief the client on the range of options available, and to seek to deliver a solution which entails good judgments, quality components and installation work, and ultimate value for money. This entails some additional time cost for the contractor, which highlights the importance of establishing a comprehensive registration scheme by which clients seeking such solutions can be confident in the credentials of those offering them.

As part of its role in mainstreaming sustainable energy practices into the housing sector, this is a matter on which SEI intends to work with the industry in the months and years ahead.

To find out more about any aspect of home energy efficiency, contact SEI's Energy Hotline at 1850 376666 or log on to www.sei.ie

Cutting-Edge Technology From Heatmerchants



Heatmerchants has always been a key supplier to the domestic boiler sector with a portfolio which incorporates leading brand names selected to ensure comprehensive coverage of all applications. Today's portfolio is no exception, incorporating as it does products representing cutting-edge technology from such names as Worcester-Bosch, Keston and Radiant. The product offering is vast with a model to suit virtually every conceivable requirement.

Included are the RK50 and RKA25 high-efficiency condensing boilers. Brief details of the benefits and features of each are as follows:—

- Radiant RK50 —
- Sedbuk Band A rated;
- 50kW 360 degree, high-efficiency, stainless steel burner;
- 106.7 DHW efficiency;
- Single unit or cascade, up to 4 units, installation;
- LPG or natural gas models;
- Full electronic modulation;
- Full range of flue options, up to 50 metre;
- Temperature adjustment for



Keston C90

underfloor heating.

Radiant RKA 25 —

- Sedbuk A Rated, room-sealed, storage, combination boiler;
- 25kW 360 degree, high-efficiency, stainless steel burner;
- 105.2% DHW efficiency;
- Integral 15-litre, stainless steel, storage cylinder;
- Features the patented DUOPASS system.

Turning to Keston, the new C90 is the latest addition to the range.

The C90 is a fully-modulating, commercial condensing boiler with high output and pick 'n mix options — 22kW to 90kW.

Features and benefits include:—

- Quick, easy installation; optional sensor for weather compensation; integral pumps automatically speed controlled for increased efficiency; small diameter plastic flue, up to 30m in length (vertically or horizontally); cost-efficient flue saves installation costs; no mixing or control valves required; dual-flow technology for different temperatures simultaneously (ideal for UFH systems); compact and wall-mounted; integral pump exercise function; optional interface box that receives an external 0 - 10 volt; signal automatic lockout avoidance; suitable for open-vented and sealed systems (preferable).

Worcester Bosch has introduced one of the

most advanced condensing 'A Rated' high-efficiency boiler only model on the market — the Greenstar Ri which comes in two models — 12 Ri and 24Ri.

Designed to optimise user-friendliness, Ri incorporates features suggested by installers, specifiers, local authorities and consumers.

The Greenstar Ri is also one of the slimmest 'A rated' condensing boilers on the market. Measuring 600 x 390 x 270mm, both models will fit comfortably into the previous boilers footprint or a kitchen cupboard.

The boilers are pre-wired and pre-plumbed so, once the wall-mounting bracket is fixed to the wall, the installer has to lift just 22.4Kg to hang the boiler. This weight is particularly important to the installer as the Ri is a one-man-lift.

Other installer benefits include versatile flueing — up to 13m horizontally and 15m vertically; flexible installation possibilities with pipes fitted behind boiler and reversible pipes to allow them to run above or below; LPG conversion; security fixing kit; in-built syphon.

Contact: Heatmerchants.

Tel: 01 - 630 4306;

Web:

www.heatmerchants.ie.



Radiant RK 25



Radiant RK 50



Worcester-Bosch Greenstar 24RI



Worcester-Bosch Greenstar 12RI

Another European Heavyweight Enters Market

Building Services News, Vol. 44, Iss. 3 (2005), Art. 1

Hermann Srl (owned by the Vaillant Group) has introduced a range of high-quality gas boilers for the Irish independent merchant sector through a distribution arrangement with C&F Quadrant Ltd.

Hermann is an Italian boiler manufacturer based in Piacenza (Milan) where its state-of-the-art manufacturing plant produces 150,000 boilers a year which are exported to 20 countries worldwide. It invests 5% of turnover in R&D, a commitment which is reflected in the innovative new products that it continuously brings to the marketplace.

This philosophy has resulted in an enviable reputation for products of the highest quality and reliability throughout Europe and

C&F Quadrant is confident that Irish installers will welcome the opportunity to avail of the strength the range contains. All boilers carry a 2-year guarantee and are available at competitive price points selected to satisfy the needs of the Irish marketplace.

According to Cliff Brant who is responsible for Hermann sales in the Republic of Ireland and the UK, Hermann may be a new name to Ireland but its products are well established in the Italian market and throughout Europe. "To enter an established market with a little known brand is not easy", he told *BSNews*, "but we see it as an opportunity given the increasing movement towards high efficiency products. However, we will also continue to supply standard efficiency boilers while there is a demand".

The philosophy of Hermann has always been quality, innovation and technology which is reflected throughout the manufacturing process. Each and every boiler is tested ... there are no exceptions. As a further quality check 1% of the entire production is re-examined by the quality team after it has been manufactured, tested,



The Hermann 32kW Eura boiler available from C & F Quadrant

packaged and warehoused.

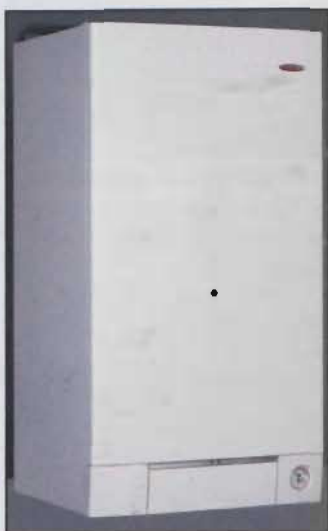
The range now being carried by C&F Quadrant is comprehensive with the entry product being the 24kW Euromini along with the mid-range Supermicra in 24kW and 30kW models, in both combi and system boiler versions. The 32kW Eura top-of-the-range model completes the standard efficiency range.

Aware of the movement toward condensing products, Hermann has developed a range of high-efficiency boilers to meet this new market. The Supermicra 24 HE, along

with the Eura Condensing, start the range with a 30kW Supermicra HE. The system versions will be available later this year.

Full technical and service support is provided by C&F Quadrant, who can also avail of the invaluable support network provided by Hermann, who's strong quality system is backed by CE Certification ISO 9001 and Vision 2000 Global Quality Systems

Contact: John Duignan/Michael Melligan, C&F Quadrant. Tel: 01 - 630 5757; email: sales@cfquadrant.ie



The Hermann Supermicra boiler is available from C & F Quadrant in 24kW and 30kW ranges

New Suprima HE & Performa HE From Potterton

Over the past 150 years the Potterton name has become synonymous with top-quality, high-specification products. All benefit from world-class manufacturing skills, are easy to install and reliable in service. Brief details of the entire range are as follows:—

Potterton Suprima L

A wall-mounted cast iron gas boiler, Suprima L offers a wide range of boilers from the same compact case size. The range covers all domestic applications while the larger model (35kW) can be linked to power larger properties.

Potterton Suprima HE

The original Suprima is known for its extensive range of outputs, low lift weight, compact dimensions, extensive flue options and advanced technology. The Suprima HE range remains true to this design concept. Like its companion standard-efficiency range, the new Suprima HE range is available in six outputs — from 30,000 Btu/h to 80,000 Btu/h. An AEE meeting pending changes in energy-efficiency legislation.



The new Performa HE from Potterton Myson (Ire)



The new Suprima HE from Potterton Myson (Ire)

Potterton Performa System

The Performa System range comprises gas fired, wall-mounted system boilers combining elegant designs with sophisticated electronic monitoring and controls. There are four models available.

Potterton Performa Combi

There are three models in the Potterton Performa wall mounted combination gas boiler range — the Performa 24 for starter and smaller homes; Performa 28 for most heating and domestic hot water requirements; and Performa 28i which provides near instantaneous domestic hot water.

Potterton Performa System HE

The Potterton Performa System HE range features the same internal design and technology platform as the established Performa range but with high-efficiency modifications designed to maximise installation simplicity.

There are four boiler in the range — the Potterton Performa 12 HE; 18 HE; 24 HE; and 28 HE.

Potterton Performa Combi HE

The Performa Combi HE range of boilers incorporate all the benefits and features of the combi range but with advanced modifications which improve efficiencies and make installation even simpler still. Models are the Potterton Performa 24 Eco HE; 24i HE; and 30 HE. They provide domestic hot water flow rates of 9.8 to 12.1 litres per minute and central heating outputs from 24kW to 31kW.

Potterton Promax

The Promax wall mounted high efficiency boiler range features a revolutionary ceramic burner and an advanced micro-processor which enables up to 19% more heat to be drawn from the same amount of fuel. It has A Class SEDBUK rating.

Potterton Powermax

The Powermax HE is the next generation of domestic central heating and hot water problems. It is a high-efficiency central heating and unvented hot water appliance which exceeds all performance, efficiency and environmental requirements.

Potterton Profile

Profile L offers a proven solution for applications where a wall-hung cast iron boiler is required in a wide range of outputs. It is especially suitable for potentially troublesome replacement applications on older systems.

Potterton Kingfisher

Kingfisher Mf L is a floor standing gas boiler range. Its fanned-flue design complies with the strictest requirements of the Building Regulations. All models are the same compact size — 290mm wide — while it also offers adjustable flue positioning.

Potterton Osprey

The Potterton Osprey 2 CFL floor standing gas boiler range is one of the most reliable on the market and complies with all relevant Building regulations requirements.

Potterton Statesman

The Statesman L range of floor standing oil boilers offers solutions for most oil boiler requirements and provides state-of-the-art design, excellent performance, reliability and ease of installation.

Potterton Commercial

The Potterton Commercial range (outputs from 40kW to 2500kW) includes high-efficiency floor and wall mounted models, including the Paramount wall-hung unit with outputs from 40kW to 80kW.

Contact: Potterton Myson (Ire).
Tel: 01 - 459 0870;
email: post@pottertonmyson.ie

Student Awards Reward Excellence

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The CIBSE Republic of Ireland Region annual awards' ceremony was held in Bolton St, DIT recently with David Hughes, Vice-President, CIBSE and Michael McNerney, Chairman Republic of Ireland Region officiating. Also in attendance was Andrew McEvit of York who presented the Walker Cup prize.

Don Byrne of DIT Bolton St opened the proceedings and a panel of judges led by

Winner of the Gold Medal (Degree Programme)

Liam Buckley. Topic — Analysis of Below Ground Thermal Labyrinth;

Winner of the Silver Medal (Degree Programme)

Enda Gilroy. Topic — Is There a Need for Air-Conditioning in Ireland?

Winner of the Bronze Medal (Degree Programme)

Ray Ardue. Topic — District Heating and Cooling;

Winner of the Gold



Degree & Diploma Recipients — Liam Buckley with Ray Ardue, Michael McNerney, Enda Gilroy, Shane Brady, David Hughes, Mark McCormack and Cathal Craughwell



David Hughes, CIBSE Vice-President with Albert Byrne who had just received his award, and Michael McNerney, CIBSE Republic of Ireland Branch Chairman



Student Awards' Judges — Brian Geraghty with Albert Byrne and Glenn Nonan

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Don Byrne, DIT Bolton St

Albert Byrne witnessed a series of excellent presentations by the competing students in the Building Services Programme.

Finally the winners were chosen and they were presented with their prizes by David Hughes. Full details are as follows:—

Medal (Diploma Programme)

Cathal Craughwell. Topic — Geothermal Energy;

Winner of the Silver Medal (Diploma Programme)

Mark McCormack. Topic — Oil Production;

Winner of the Bronze Medal (Diploma Programme)

Shane Brady. Topic — Smoke Control in Atrium Buildings.

A special presentation was made to Albert Byrne by CIBSE Vice-president David Hughes in recognition of his contribution to building services over the years.

Graham Reed Wind Power



Graham Reed, www.windsave.com, gave an excellent presentation on the use of wind power for city buildings at Kevin St DIT recently. He is pictured above (2nd left) with Kevin Kelly, DIT and CIBSE Republic of Ireland Region Vice-Chairman; Michael McNerney, Chairman, CIBSE Republic of Ireland Region; and Greg Traynor.

Matrix 'Free Cooling' Superchiller

Matrix is the new Liebert HIROSS product line of air-cooled chillers from Core Air Conditioning designed to combine the best performance in terms of efficiency and reliability with the lowest impact on the environment. Utilising semi-hermetic screw compressors specifically designed for air conditioning applications, the new series stands out for its unrivalled

efficiency and low sound emissions.

The "superchiller" execution — with built-in freecooling section — and "supersaver" system, provides complete integration with indoor air conditioning units, extraordinary energy savings, and increased system lifetime and reliability.

The "superchiller" execution allows Matrix take advantage of low outdoor air temperatures in the water cooling process in order to save energy, by avoiding compressor operation.

A three-way valve arrangement permits the coolant to be diverted via the additional heat exchangers before being fed into the cooling evaporator. This means that, even if the outside ambient temperature is not low enough to provide the complete cooling load, a significant reduction in the running costs of the system can be made whenever the



Liebert-Hiross Matrix "free cooling" from Core Air Conditioning

ambient temperatures fall below the coolant inlet temperature.

The "superchiller" execution finds its best application in combination with the "supersaver" system which regulates the coolant temperatures according to the variation of the thermal load, increasing the number of hours during which free cooling is possible. The percentage of energy saving can thus be greater than 45%.

Reduced space requirements in comparison with a conventional chiller, plus a dry-cooler, are obtained through the superchiller's compact design, and the reduction of the compressors' working hours offers exceptional savings both in the long and short term.

The Matrix series is equipped with two or four semi-hermetic screw compressors which

represent state-of-the-art technology in this sector. They have been designed and optimised for air-cooled water chillers within air conditioning applications. Extremely low noise operation and the absence of vibrations aid the installation of the unit in city sites requiring strict noise limits.

Furthermore, Matrix multi-compressor design with two/four independent refrigeration circuits allows maximum internal redundancy and thus system reliability.

The Matrix series is characterised by unrivalled low sound emissions, in particular the Quiet 'Q' version models. A sound-proofed compressor enclosure, special flexible piping instead of traditional dampers and mufflers on the discharge line, and a sickle-shaped fan blade design contribute to the achievement of such performance.

Full management of

the Matrix units is allowed by the onboard control, Microface Evolution, which allows the programming of temperature and pressure thresholds as well as the teamwork functionality through the proprietary Hirobus system. The complete set-up can be carried out using the simple Operating Display that, through symbols and codes, ensures a reliable and flexible man-machine interface.

The different strategies adopted by Liebert HIROSS' microprocessor control in managing the various components such as fans, compressors, regulation valves, and the operating modes (mechanical and/or freecooling) — together with the compressors' continuous partialisation — ensures typical energy savings greater than 35%.

Up to 16 Matrix can be easily linked together on a network to provide teamwork mode, stand-by operation and duty cycling without additional hardware. Reliability is not affected if there are problems on the data communication buses, because the units return automatically to the stand-alone mode.

Contact: Austin McDermott, Core Air Conditioning.
Tel: 01 - 409 8912;
email: info@coreac.com

Opening Of The Electricity Supply Market

Contact: Mr David McGloughlin, General Manager, RECI.
Email: dmcgloughlin@reci.ie. Tel: 01 - 492 9966.

Procedures for requesting work from ESB Networks and metering issues arising from Opening of the Electricity Supply Market to all customers.

Market Opening

On 19 February 2005 the electricity market in Ireland opened to all 1.8 million users, leaving customers free to choose their supplier. This resulted in a change in the way requests are made for some work that would previously have been made directly to ESB Networks. The following requests must now be made through the customer's supplier quoting the Meter Point Reference Number (MPRN).

- ☐ Re-energisations or de-energisations;
- ☐ Meter exchanges for change of tariff;
- ☐ Meter removals (load transferred or no longer required);
- ☐ NSH meter and timeswitch installation or removal.

These requests are processed by the supplier and are passed to ESB Networks. A work order is then sent to the relevant supervisor who arranges to have the work completed.

Networks Services Bureau (NSB) and Unmetered Registrar (UMR).

All applications for new connections and increase in capacity for metered connections are now processed in Networks Services Bureau, ESB Networks, PO Box 29, Garrycastle, Athlone, Co Westmeath.

All applications for new connections and increase in capacity for unmetered connections are now processed in UMR, ESB Networks, Abbeylax Road, Portlaoise, Co Laois.

All applications for new connections must be accompanied by an ordinance survey map clearly showing the site location and site address.

It is important to fill in all the relevant information on the application form as these forms will be returned if there are any omissions, resulting in delays in logging the request on to the system.

Following issue of a quotation, receipt of payment, a signed connection agreement and any other required documents, design/construction work will commence. However, the connection will not be energised until:

- ☐ A valid completion certificate has been submitted (to designated ESB Networks address either directly or via the relevant regulatory body as

appropriate);

- ☐ The customer whose name electricity bills should be issued to has been submitted;
- ☐ In addition for premises where the required capacity is 30kVA or above, or where an unmetered connection is required, the customer must have an agreement with an electricity supplier, who in turn will register their MPRN and name with ESB Networks.

Note: A work order will not be released to the relevant supervisor until the above requirements have been met.

Also, if all metering has been de-energised for more than two years, the MPRN for that premises will be terminated under rules agreed by CER with suppliers.

Accordingly anyone seeking a re-connection (re-energisation) at that premises must now submit a new connection application to the NSB Office in Athlone or UMR Office in Portlaoise.

Also, requests for a connection on the basis of a Temporary Completion Certificate, at the permanent metering location, at a premises for which a permanent new connection has already been requested, is now

treated as a request to provide the permanent connection at an earlier date. It cannot be treated as a separate connection because the rules agreed by CER with suppliers do not allow a premises to have two separate MPRNs. The provision of this earlier connection is subject to sufficient advance notice of this requirement being provided to ESB Networks. Once the permanent connection has been provided on this basis, the subsequent permanent completion certificate should be returned directly to the relevant regulatory body.

DE-ENERGISATIONS AND RE-ENERGISATIONS

Once the connection to a customer's premises has been energised, all requests to de-energise this connection must be made via the customer's electricity supplier rather than directly to ESB Networks, either centrally or locally under rules agreed by CER.

The only exception to this rule is where an emergency de-energisation is required for safety reasons — in the event of a fire, flooding, etc — or if the customer only wants the premises de-energised for less than 24 hours in order to do some work. In these cases the request can be made directly to

Opening Of The Electricity Supply Market

ESB Networks via 1850 372 999 for emergency de-energisations or via 1850 372 757 for non-emergency de-energisations Networks number.

If a customer wants to have their premises re-energised again they must again submit this request via their electricity supplier.

The only exception to this rule is where the original de-energisation request was for less than 24 hours and the re-energisation request is made within 24 hours. In these cases the request can be made directly to Networks via 1850 372 757, or as arranged previously when the de-energisation was originally requested, or locally during the de-energisation.

Note again, as mentioned above under New Connections, the requirement to submit a new connection application if the re-energisation request is for a premises which has been de-energised for more than two years.

If the premises was de-energised for more than six months or alterations were made to the customer interface wiring, a completion certificate must also be submitted to the local ESB Networks office or returned to the regulatory body in line with current arrangements.

Note: A completion certificate cannot be used to initiate a re-energisation. If a re-



energisation request is not received from the customer's electricity supplier the re-energisation cannot be carried out.

A customer wishing to move into an existing premises which is de-energised must first contact an electricity supplier, enter into a supply agreement and request that supplier to submit a re-energisation request.

METER RELOCATIONS AND SERVICE ALTERATIONS

All service alterations and meter relocations will be subject to a charge from ESB Networks. This charge will apply regardless of the original location of the service or meter.

Standard charges for Domestic premises (cost in Euro inc. VAT):—

- ☐ Alteration to a domestic service, whether overhead or underground: €299.
- ☐ Relocate meter only: €189.

All requests should be made via the 1850 372 757 telephone number.

An invoice for the charge will issue to the applicant and when payment and wiring cert, where required, is received, a work order is then sent to the relevant supervisor who arranges to have the work completed.

Note: A completion certificate cannot be used to initiate work. All requests must be submitted via the 1850 372 757 telephone number.

OTHER IMPORTANT INFORMATION — NOTE TO CONTRACTORS REGARDING ESB NETWORKS SEALS

Under the Energy (Miscellaneous Provisions) Act 1995 enacted 21st December 1995 it is an offense to unlawfully interfere with any article (including a meter) owned by ESB.

ESB seals are registered on customers meter record. DO NOT

break them.

There have been a number of instances where seals have been removed in installations where some electrical work had taken place. If contractors find seals broken or missing please report this to ESB Networks BEFORE starting work on an installation.

Do not work on, or move ESB Networks metering equipment, including CTs and time switches, as this can give rise to serious contractual problems with customers and suppliers. Sealing and the removal of all seals, shall be undertaken by ESB Networks staff only. *The above note is on page 9 of the Interface Book.*

USEFUL CONTACT NUMBERS.

1850 372 999 — ESB Networks All Supply Failures / Emergencies

1850 372 757 — ESB Networks All New Connections, Service/Meter Alterations, etc.

1850 372 372 — ESB Customer Supply/Accounts where ESB is the electricity supplier.

1850-372 772 — ESB Public Lighting Faults where ESB Contracts are the public lighting maintenance contractor.

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Plumb Lines

Heard it on the grapevine ...

O'LEARY CORK

THROUGH & THROUGH

— Tom O'Leary of Comfort Cooling is an out-and-out Corkman and he has taken me to task, not so much for the fact that I got his telephone number wrong last month, but more so that I used the Dublin prefix instead of 021. Tom, as a Corkman myself, I fully appreciate the gravity of the error! So, for the record and for the benefit of all our readers, Tom O'Leary of Comfort Cooling can be contacted at Tel: 021 - 284 7200.

PENSIONS REMINDER

The Pensions Board has warned that three-quarters of Irish private sector workers do not have enough pension savings. When did you last assess the schemes you have in place for your workers, and yourself? Don't leave it too late!

ITS CGP PAT!

Apologies to Pat O'Shaughnessy and his brothers Ciaran and Gabriel. I met them on my "Down Your Way" trip to Dundalk last month but, despite the massive signage on their vans — and the large photograph of same I used within the article — I still got the company name wrong. Sorry boys.

SANYO SPOT THE

DIFFERENCE — This competition continues to draw a large number of responses. Sorry folks, but there can only be one winner. Paddy Horgan of HA O'Neill was the name out of the hat of correct entries. See page 10 for this month's competition.

WATER WATER

EVERYWHERE — This month saw the introduction of National Water Day in the UK. It served to highlight all manner of interesting — and downright frightening — statistics about how the human race uses, and abuses, this vital resource. Here in Ireland we often pay lip-service to water conservation but, as an industry sector with a great deal of influence over how water is used, how responsible is the building services sector? Here are some sobering facts about water.

GROUNDWATER

SHRINKS ... LAND SINKS — Worldwatch has calculated that as the groundwaters empty beneath Mexico city it is sinking by up to a foot a year. On the North China plain underground water levels are falling by up to 5ft a year.

FOOD PRODUCTION

It takes 1,000 tons of water to produce one ton of grain.

DRINKING WATER SHORTAGE

Something like 1.1 billion people throughout the world have no access to safe drinking water.

NO SANITATION

Something like 2.6 million people have no access to toilet facilities.

WATER WARS — The UN has warned of "river wars" by 2032. Countries on the Nile have already been making noises over the 1929 agreement which guarantees Egypt two-thirds of the river's flow. For its part Egypt has made it clear that it will defend its water rights by force.

DAMNED BY DAMS

Because of rotting vegetation some dams produce more greenhouse gasses than oil-burning power plants.

DEATH BY WATER

Between three and four million people die each year because of water-borne diseases.

WATER KILLS

CHILDREN — Illnesses caused by contaminated water result in the death of a child every 15 seconds.

BEST WISHES PADDY

Best wishes to Paddy Roche, the Veba (Quinn) Radiators driver who was shot in the neck on the M50 as he set out for Donegal. Makes you wonder just what kind of society we have become in the modern Ireland.

SANYO ON THE MOVE

Reports on the grapevine indicate that Sanyo, having outgrown its existing premises in Dublin 12, is moving to new, more extensive premises. More details next month.

BEST OF BOTH

WORLDS — Spoke with Michael Murphy of Fläkt Woods Ireland recently. Having "retired" not too long ago — Michael still comes into the office a couple of days a week — he is enjoying the best of both worlds. No need to guess what he does on the his days off (hint: he is currently President of the BTU).

SUPERMARKET BUGGY

Met Des Buggy, formerly of Burlington Engineering, recently. He looked hail and hearty. Don't know that he was too happy though being dragged around the supermarket by his better half!

**Liebert
HIROSS**



free cooling

M A T R I X
HIGH PERFORMANCE AIR CONDITIONING



@ connectivity

superchiller execution

supersaver system

environment-friendly

best efficiency

low sound emissions



Complete Solutions Building Services Review Vol 44, Iss. 3 [2005], Art. 1

We offer a complete range of high-quality, competitively priced products for pressure, temperature and level measurement.

- Our range does not only cover the delivery of individual sensors, but includes suitable power supplies and measurement display units.
- Upon request, we do the entire engineering for you, all the way to the production of the finished control systems.
- National and international approvals and certificates assure the highest level of quality.
- A wide selection of materials (e.g. stainless steel 1.4571/1.4435/1.4404, Monel, Hastelloy, Platinum, Titanium, PFA/PTFE coating) and process connections enable perfect adaptation to the process.
- AFRISO measuring devices cover the following ranges:
 Pressure: from 0/4 mbar to 0/4.000 bar
 Temperature: from -80°C to +600°C
 Level: from 0/60 cm to 0/100 m



Pressure Gauges



Digital Pressure Gauges



Pressure Transducers



Diaphragm Seals



Manotherm Limited

4 Walkinstown Road, Dublin 12.

Tel: 01 - 452 2355/452 2229; Fax: 01 - 451 6919

email: info@manotherm.ie

Measurement Technology From Manotherm